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-	16	((abstract adj syntax adj notation) ASN.1) and XML) and (@rlad<=20000726 @ad<=20000726)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/01/07 14: 14
-	13	ASN.1 near map\$4	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/01/07 14: 22
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-	19	4994998.URPN.	USPAT	2004/01/07 14: 18
-	2396046	707/10, 100, 101, 102, 103R.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/01/07 14: 25
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### 1 [Poster abstracts: Application of the ASN.1 specification technique to the Bluetooth service discover protocol](#)

John Larmouth, Olivier Dubuisson, Paul Thorpe

 October 2001 **Proceedings of the 2nd ACM international symposium on Mobile ad hoc networking & computing**

 Full text available: [pdf\(111.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the work undertaken, and evaluates the results produced, in a project that applied ASN.1 and its newly developed Encoding Control Notation to the Bluetooth Service Discovery Protocol. The use of ASN.1 + ECN was shown to be fully capable of specifying the bits-on-the-line required by the approved Bluetooth specification, and identified some areas where the current Bluetooth specification lacks precision --- noticeably in areas concerned with "extensibility".

**Keywords:** ASN.1, Bluetooth, ECN, protocol specification techniques

### 2 [Development of SNMP-XML translator and gateway for XML-based integrated network management](#)

Jeong-Hyuk Yoon, Hong-Taek Ju, James W. Hong

 July 2003 **International Journal of Network Management**, Volume 13 Issue 4

 Full text available: [pdf\(251.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The research objective of our work is to develop a SNMP MIB to XML translation algorithm and to implement an SNMP-XML gateway using this algorithm. The gateway is used to transfer management information between an XML-based manager and SNMP-based agents. SNMP is widely used for Internet management, but SNMP is insufficient to manage continuously expanding networks because of constraints in scalability and efficiency. XML based network management architectures are newly proposed as alternatives t ...

### 3 [Session 3: XML applications: Towards an XML format for time-stamps](#)

Karel Wouters, Bart Preneel, Ana Isabel González-Tablas, Arturo Ribagorda

 November 2002 **Proceedings of the 2002 ACM workshop on XML security**

 Full text available: [pdf\(172.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

XML has become a well-established format for information exchange. Several formats have been defined to secure XML data, such as XML Digital Signatures, XML Encryption and XKMS. In recent work by ETSI on XML digital signatures conforming to European legislation,

time-stamps play a key role for qualified digital signatures. Some ASN.1-based formats for time-stamp protocols have been defined within IETF and ISO/IEC. In this paper, we investigate how the wide range of time-stamping protocols in the ...

4 Transforming and integrating biomedical data using Kleisli: a perspective

S. B. Davidson, P. Buneman, S. Harker, C. Overton, V. Tannen

August 1999 **ACM SIGBIO Newsletter**, Volume 19 Issue 2

Full text available:  pdf(510.50 KB) Additional Information: [full citation](#), [references](#)

5 XML five years on: a review of the achievements so far and the challenges ahead

Michael H. Kay

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available:  pdf(151.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This is an extended abstract of the talk given by Michael Kay in the keynote address of the DocEng2003 symposium.

**Keywords:** XML, XQuery, XSLT

6 Certificate-based authorization policy in a PKI environment

Mary R. Thompson, Abdelilah Essiari, Srilekha Mudumbai

November 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 4

Full text available:  pdf(233.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The major emphasis of public key infrastructure has been to provide a cryptographically secure means of authenticating identities. However, procedures for authorizing the holders of these identities to perform specific actions still need additional research and development. While there are a number of proposed standards for authorization structures and protocols such as KeyNote, SPKI, and SAML based on X.509 or other key-based identities, none have been widely adopted. As part of an effort to us ...

**Keywords:** Public key infrastructure, XML, digital certificates

7 Subtyping arithmetical types

Joseph (Yossi) Gil

January 2001 **ACM SIGPLAN Notices , Proceedings of the 28th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**, Volume 36 Issue 3

Full text available:  pdf(1.23 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We consider the type system formed by a finite set of primitive types such as integer, character, real, etc., and three type construction operators: (i) Cartesian product, (ii) disjoint sum, and (iii) recursive type definitions. Type equivalence is defined to obey the arithmetical rules: commutativity and associativity of product and sum and distributivity of product over sum. We offer a compact representation of the types in this system as multivariate algebraic functions. This type system admi ...

8 Workshop and conference summaries: WoSEF: workshop on standard exchange format

Susan Elliot Sim, Rainer Koschke

January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1


Full text available:  pdf(800.45 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

A workshop was held at ICSE 2000 in Limerick, Ireland to further efforts in the development of a standard exchange format (SEF) for data extracted from and about source code. WoSEF (Workshop on Standard Exchange Format) brought together people with expertise in a variety of formats, such as RSF, TA, GraX, FAMIX, XML, and XMI, from across the software engineering discipline. We had five sessions consisting of a presentation and discussion period and a working session with three subgroups. The fiv ...

#### 9 Applications: The PERMIS X.509 role based privilege management infrastructure

David W. Chadwick, Alexander Otenko

June 2002 **Proceedings of the seventh ACM symposium on Access control models and technologies**

Full text available:  pdf(180.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the output of the PERMIS project, which has developed a role based access control infrastructure that uses X.509 attribute certificates (ACs) to store the users' roles. All access control decisions are driven by an authorization policy, which is itself stored in an X.509 attribute certificate, thus guaranteeing its integrity. All the ACs can be stored in one or more LDAP directories, thus making them widely available. Authorization policies are written in XML according to a ...

**Keywords:** Privilege management infrastructure, RBAC, X.509, XML, attribute certificates, authorization, policies

#### 10 PLI workshops: World-class product certification using Erlang

Ulf Wiger, Gösta Ask, Kent Boortz

December 2002 **ACM SIGPLAN Notices**, Volume 37 Issue 12

Full text available:  pdf(195.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

It is now ten years ago since the decision was made to apply the functional programming language Erlang to real production projects at Ericsson. In late 1995, development on the Open Telecom Platform (OTP) started, and in mid 1996 the AXD 301 project became the first user of OTP. The AXD 301 Multi-service Switch was released in October 1998, and later became "the heart of ENGINE", Ericsson's leading Voice over Packet solution. In those early days of Erlang programming, high-level tools for develo ...

**Keywords:** Erlang, testing

#### 11 World-class product certification using Erlang

Ulf Wiger, Gösta Ask, Kent Boortz

October 2002 **Proceedings of the 2002 ACM SIGPLAN workshop on Erlang**

Full text available:  pdf(162.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

It is now ten years ago since the decision was made to apply the functional programming language Erlang to real production projects at Ericsson. In late 1995, development on the Open Telecom Platform (OTP) started, and in mid 1996 the AXD 301 project became the first user of OTP. The AXD 301 Multi-service Switch was released in October 1998, and later became "the heart of ENGINE", Ericsson's leading Voice over Packet solution. In those early days of Erlang programming, high-level tools for develo ...

**Keywords:** erlang, testing

## 12 Towards transparent access to multiple biological databanks

Patrick Lambrix, Vaida Jakoniene

January 2003 **Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19**

Full text available:  pdf(151.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Nowadays, biologists use a number of large biological databanks to find relevant information for their research. Users of these databanks face a number of problems. One problem is that users are required to have good knowledge about the contents, implementations and conceptual models of many databanks to be able to ask precise and relevant questions. Further, the terminology that is used in the different databanks may be different. Also, when asking complex queries to multiple databanks, users n ...

## 13 GCspy: an adaptable heap visualisation framework

Tony Printezis, Richard Jones

November 2002 **ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 37 Issue 11

Full text available:  pdf(215.66 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

GCspy is an architectural framework for the collection, transmission, storage and replay of memory management behaviour. It makes new contributions to the understanding of the dynamic memory behaviour of programming languages (and especially object-oriented languages that make heavy demands on the performance of memory managers). GCspy's architecture allows easy incorporation into *any* memory management system: it is not limited to garbage-collected languages. It requires only small change ...

**Keywords:** Java, garbage collection, language implementation, memory management, visualisation of objects

## 14 Getting Erlang to talk to the outside world

Joe Armstrong

October 2002 **Proceedings of the 2002 ACM SIGPLAN workshop on Erlang**


Full text available:  pdf(125.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

How should Erlang talk to the outside world? --- this question becomes interesting if we want to build distributed applications where Erlang is one of a number of communicating components. We assume these components interact by exchanging messages --- at this level of abstraction, details of programming language, operating system and host architecture are irrelevant. What is important is the ease with which we can construct such systems, and the precision with which we can isolate faulty componen ...

## 15 A reuse and composition protocol for services

Dorothea Beringer, Laurence Melloul, Gio Wiederhold

May 1999 **Proceedings of the 1999 symposium on Software reusability**

Full text available:  pdf(1.71 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** Internet-based reuse, application generators, interface issues, reuse environments, reuse process

## 16 A mediation infrastructure for digital library services

Sergey Melnik, Hector Garcia-Molina, Andreas Paepcke

## June 2000 **Proceedings of the fifth ACM conference on Digital libraries**

Full text available:  pdf(155.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Digital library mediators allow interoperation between diverse information services. In this paper we describe a flexible and dynamic mediator infrastructure that allows mediators to be composed from a set of modules ("` blades"). Each module implements a particular mediation function, such as protocol translation, query translation, or result merging. All the information used by the mediator, including the mediator logic itself, is represented by an RDF graph. We i ...

**Keywords:** component design, interoperability, mediator, wrapper

### 17 Deficiencies in LDAP when used to support PKI

David Chadwick

March 2003 **Communications of the ACM**, Volume 46 Issue 3

Full text available:  pdf(100.30 KB)  html(33.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Problems arise when a protocol initially developed to simplify access to a distributed directory failed to take into account all the uses the directory was originally intended for.

### 18 Hypermedia and Graphics 1: Towards the convergence between hypermedia authoring languages and architecture description languages

Débora Christina Muchaluat-Saade, Luiz Fernando Gomes Soares

November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**

Full text available:  pdf(81.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper presents a detailed comparison between the structural elements and definitions provided by Hypermedia Authoring Languages and Architecture Description Languages (ADL). ADLs are formal languages that can be used for representing a software architecture. Although it may look trivial to make a direct correspondence between ADL and hypermedia structural entities, such as components to nodes and connectors to links, interesting differences can be identified when observing them more closely ...

**Keywords:** ADL, architecture description languages, components, connectors, hypermedia authoring languages, structural meta-model

### 19 Security and Middleware Services: Towards flexible credential verification in mobile ad-hoc networks

Sye Loong Keoh, Emil Lupu

October 2002 **Proceedings of the second ACM international workshop on Principles of mobile computing**

Full text available:  pdf(281.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Ad-hoc networks facilitate interconnectivity between mobile devices without the support of a network infrastructure. In this paper we propose a flexible credential verification mechanism, which improves the likelihood that participants in an ad-hoc network can verify each other's credentials despite the lack of access to certification and attribute authorities. Users maintain Credential Assertion Statements (CASs), which are formed through extraction of X.509 and attribute certificates into an i ...

**Keywords:** authentication, credential verification, security, trust

## 20 Workshop and conference summaries: Exchange format bibliography

Holger M. Kienle

January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1

Full text available:  pdf(616.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#)



This paper gives a brief bibliographical overview of exchange formats and related research areas. We classify exchange formats and try to give a brief assessment of the more interesting ones.

**Keywords:** Exchange format, bibliography, graph format, overview

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*Imamura, T.; Maruyama, H.;*

Applications and the Internet, 2001. Proceedings. 2001 Symposium on , 8-12 Jan 2001

Pages:57 - 64

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Pages:57 - 64

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**2 An ADT approach to integrating Estelle and ASN.1 specifications**

*Lo, A.; Lai, R.;*

Networks, 1993. International Conference on Information Engineering '93. 'Communications and Networks for the Year 2000', Proceedings of IEEE Singapore International Conference on , Volume: 1 , 6-11 Sept. 1993

Pages:108 - 112 vol.1

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**3 ASN.1 protocol specification for use with arbitrary encoding schemes**

*Tantiprasut, D.; Neil, J.; Farrell, C.;*

Networking, IEEE/ACM Transactions on , Volume: 5 , Issue: 4 , Aug. 1997

Pages:502 - 513

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**4 The design and implementation of an ASN.1-C compiler**

*Neufeld, G.N.; Yang, Y.;*

Software Engineering, IEEE Transactions on , Volume: 16 , Issue: 10 , Oct. 1990

Pages:1209 - 1220

[\[Abstract\]](#)   [\[PDF Full-Text \(940 KB\)\]](#)   IEEE JNL

**5 Realization of a TMN Java management API**

*Dassow, H.; Hubert, C.; Frohnhoff, B.; Aschemann, G.;*  
 Network Operations and Management Symposium, 1998. NOMS 98.,  
 IEEE , Volume: 2 , 15-20 Feb. 1998  
 Pages:412 - 421 vol.2

[[Abstract](#)] [[PDF Full-Text \(1128 KB\)](#)] **IEEE CNF**

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**6 Processing ASN.1 specifications in a declarative language**

*Wilkstrom, C.;*  
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[[Abstract](#)] [[PDF Full-Text \(464 KB\)](#)] **IEE CNF**

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**7 ASN.1 and ROS: the impact of X.400 on OSI**

*White, J.E.;*  
 Selected Areas in Communications, IEEE Journal on , Volume: 7 , Issue: 7 , Sept  
 1989  
 Pages:1060 - 1072

[[Abstract](#)] [[PDF Full-Text \(1332 KB\)](#)] **IEEE JNL**

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**8 A rapid protocol prototyping development system**

*Jirachiefpattana, A.; Lai, R.;*  
 Rapid System Prototyping, 1995. Proceedings., Sixth IEEE International Worksho  
 on , 7-9 June 1995  
 Pages:118 - 124

[[Abstract](#)] [[PDF Full-Text \(584 KB\)](#)] **IEEE CNF**

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**9 High performance PDU processing for application layer**

*Bilgic, M.;*  
 High-Performance Distributed Computing, 1992. (HPDC-1), Proceedings of the Fi  
 International Symposium on , 9-11 Sept. 1992  
 Pages:161 - 170

[[Abstract](#)] [[PDF Full-Text \(780 KB\)](#)] **IEEE CNF**

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**10 Experience with the Abstract Syntax Notation One and the Basic Encoding Rules**

*Harvey, J.D.; Weaver, A.C.;*  
 Local Computer Networks, 1991. Proceedings., 16th Conference on , 14-17 Oct.  
 1991  
 Pages:621 - 628

[[Abstract](#)] [[PDF Full-Text \(620 KB\)](#)] **IEEE CNF**

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**11 Implement of system control part in a multimedia communication terminal**

*Du Wen; Lin Rongrong; Cui Huijuan;*  
 Communication Technology Proceedings, 2000. WCC - ICCT 2000. International

Conference on , Volume: 2 , 21-25 Aug. 2000  
 Pages:1372 - 1375 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(264 KB\)\]](#) [IEEE CNF](#)

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**12 MicroMMS: a compact abstract syntax for MMS**

*Pleinevaux, P.;*

Emerging Technologies and Factory Automation, 1994. ETFA '94., IEEE Symposium , 6-10 Nov. 1994  
 Pages:304 - 311

[\[Abstract\]](#) [\[PDF Full-Text \(320 KB\)\]](#) [IEEE CNF](#)

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**13 Implementing efficient encoders and decoders for network data representations**

*Sample, M.; Neufeld, G.;*

INFOCOM '93. Proceedings. Twelfth Annual Joint Conference of the IEEE Computer and Communications Societies. Networking: Foundation for the Future. IEEE , 28 March-1 April 1993  
 Pages:1144 - 1153 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(780 KB\)\]](#) [IEEE CNF](#)

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**14 Recursive descent techniques for ASN.1 decoding and encoding**

*Vesilo, R.;*

TENCON '92. Technology Enabling Tomorrow : Computers, Communications and Automation towards the 21st Century. 1992 IEEE Region 10 International Conference. , 11-13 Nov. 1992  
 Pages:327 - 331 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(400 KB\)\]](#) [IEEE CNF](#)

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**15 Translation of GDMO/ASN.1 to Java objects for network management**

*Jae-Oh Lee;*

Communications, 1998. ICC 98. Conference Record. 1998 IEEE International Conference on , Volume: 2 , 7-11 June 1998  
 Pages:1140 - 1144 vol.2

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... Oracle translates the chain of object references from the **database** into the hierarchical structure of **XML** elements. In an object-**relational database**, the field ...

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### XML.com: Mapping DTDs to Databases [May. 09, 2001]

... based mappings only work with a limited subset of **XML** documents, some middleware tools, most **XML**-enabled **relational databases**, and most **XML**-enabled object ...

[www.xml.com/pub/a/2001/05/09/dtdtodbs.html](http://www.xml.com/pub/a/2001/05/09/dtdtodbs.html) - 34k - Jan 4, 2004 - [Cached](#) - [Similar pages](#)

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... Technologies Introduces DataDirect jXTransformer for **Transforming** Data Between ... from **relational** data and updating any **relational database** with **XML** input. ...

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into an **XML** format is ... The next step requires **transforming** data from one **XML** ...  
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### **ASN.1/XML Translator**

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enable us to manipulate efficient **ASN.1** data in a user-friendly manner. ...www.tri.ibm.com/projects/xml/ xss4j/docs/axt-readme.html - 8k - [Cached](#) - [Similar pages](#)

### **OSS Nokalva - The OSS ASN.1 Tools**

... Helping you make informed decisions OSS introduces our new **XML** News section to help you keep current with all the latest **ASN.1** - **XML** activity. ...

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### **Re: ASN.1 => XML Schema questions from Geoff Elgey on 2001-06-26 ...**

... But if anyone is serious about translating **ASN.1** schema to **XML** schema (and why not -- think of all the protocols specified in **ASN.1**) then allowing repetition of ...

lists.w3.org/Archives/Public/xmlschema-dev/ 2001Jun/0190.html - 13k - [Cached](#) - [Similar pages](#)

### **Re: ASN.1 => XML Schema questions from Martin Duerst on 2001-06- ...**

... Next message : Geoff Elgey: "Re: **ASN.1** => **XML** Schema questions"; Previousmessage : Martin Duerst: "Re: **ASN.1** => **XML** Schema questions"; ...lists.w3.org/Archives/Public/xmlschema-dev/ 2001Jun/0201.html - 12k - [Cached](#) - [Similar pages](#)[ [More results from lists.w3.org](#) ]

### **Re: [ASN.1] xml**

... Re: **[ASN.1] xml**. From: DUBUISSON Olivier; Subject: Re: **[ASN.1] xml**;

Date: Sun, 23 Dec 2001 08:08:55 -0800. Salim Mounir AIAoui wrote ...

www.mail-archive.com/asn1@oss.com/msg00607.html - 7k - [Cached](#) - [Similar pages](#)

### **[ASN.1] xml**

... **[ASN.1] xml**. From: Salim Mounir AIAoui; Subject: **[ASN.1] xml**; Date:

Fri, 21 Dec 2001 09:01:43 -0800. hello, does anyone have some pointers ...

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